Xiu Ye

List of Publications by Year
in descending order

106	3,689	159585	138484
papers	citations	30 h-index	58 g-index

106	106	106	719
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A weak Galerkin least squares finite element method of Cauchy problem for Poisson equation. Journal of Computational and Applied Mathematics, 2022, 401, 113767.	2.0	4
2	A Mixed Finite-Element Method on Polytopal Mesh. Communications on Applied Mathematics and Computation, 2022, 4, 1374-1385.	1.7	1
3	Development of a LDG method on polytopal mesh with optimal order of convergence. Journal of Computational and Applied Mathematics, 2022, 410, 114179.	2.0	0
4	A weak divergence CDG method for the biharmonic equation on triangular and tetrahedral meshes. Applied Numerical Mathematics, 2022, 178, 155-165.	2.1	6
5	A time-explicit weak Galerkin scheme for parabolic equations on polytopal partitions. Journal of Numerical Mathematics, 2022, .	3.5	1
6	A Modified Weak Galerkin Finite Element Method for the Biharmonic Equation on Polytopal Meshes. Communications on Applied Mathematics and Computation, 2021, 3, 91-105.	1.7	5
7	A stabilizer free weak Galerkin finite element method with supercloseness of order two. Numerical Methods for Partial Differential Equations, 2021, 37, 1012-1029.	3.6	18
8	A weak Galerkin finite element method for nonlinear conservation laws. Electronic Research Archive, 2021, 29, 1897-1923.	0.9	3
9	A Stabilizer-Free, Pressure-Robust, and Superconvergence Weak Galerkin Finite Element Method for the Stokes Equations on Polytopal Mesh. SIAM Journal of Scientific Computing, 2021, 43, A2614-A2637.	2.8	24
10	A conforming discontinuous Galerkin finite element method for the Stokes problem on polytopal meshes. International Journal for Numerical Methods in Fluids, 2021, 93, 1913-1928.	1.6	7
11	Weak Galerkin finite element methods with or without stabilizers. Numerical Algorithms, 2021, 88, 1361.	1.9	1
12	A stabilizer-free pressure-robust finite element method for the Stokes equations. Advances in Computational Mathematics, 2021, 47, 1.	1.6	3
13	A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1351" altimg="si5.svg"><mml:msub><mml:mrow><mml:mi>P</mml:mi></mml:mrow><mml:mrow><mml:mi>k</mml:mi><mml:mo>+</mml:mo> polynomial lifting operator on polygons and polyhedrons. Applied Mathematics Letters, 2021, 116, 107033.	2.7	3
14	A numerical scheme with divergence free H-div triangular finite element for the Stokes equations. Applied Numerical Mathematics, 2021, 167, 211-217.	2.1	7
15	Development of Pressure-Robust Discontinuous Galerkin Finite Element Methods for the Stokes Problem. Journal of Scientific Computing, 2021, 89, 1.	2.3	6
16	A stabilizer free weak Galerkin finite element method on polytopal mesh: Part II. Journal of Computational and Applied Mathematics, 2021, 394, 113525.	2.0	3
17	A stabilizer free weak Galerkin finite element method on polytopal mesh: Part III. Journal of Computational and Applied Mathematics, 2021, 394, 113538.	2.0	7
18	de Rham complexes for weak Galerkin finite element spaces. Journal of Computational and Applied Mathematics, 2021, 397, 113645.	2.0	2

#	Article	IF	Citations
19	A new weak gradient for the stabilizer free weak Galerkin method with polynomial reduction. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 4131.	0.9	0
20	A stabilizer free WG method for the Stokes equations with order two superconvergence on polytopal mesh. Electronic Research Archive, 2021, 29, 3609-3627.	0.9	10
21	A C ⁰-conforming DG finite element method for biharmonic equations on triangle/tetrahedron. Journal of Numerical Mathematics, 2021, 30, 163-172.	3.5	5
22	A discontinuous Galerkin least-squares method for divâ€“curl systems. Journal of Computational and Applied Mathematics, 2020, 367, 112474.	2.0	1
23	A new <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1351" altimg="si5.svg"><mml:msub><mml:mrow><mml:mi>P</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></ weak Galerkin method for the Biharmonic equation. Journal of Computational and Applied Mathematics, 2020, 364, 112337.	2.0	12
24	A Stabilizer Free Weak Galerkin Method for the Biharmonic Equation on Polytopal Meshes. SIAM Journal on Numerical Analysis, 2020, 58, 2572-2588.	2.3	27
25	A locking-free weak Galerkin finite element method for Reissnerâ€“Mindlin plate on polygonal meshes. Computers and Mathematics With Applications, 2020, 80, 906-916.	2.7	10
26	Stabilizer-free weak Galerkin methods for monotone quasilinear elliptic PDEs. Results in Applied Mathematics, 2020, 8, 100097.	1.3	8
27	A stabilizer-free weak Galerkin finite element method on polytopal meshes. Journal of Computational and Applied Mathematics, 2020, 371, 112699.	2.0	38
28	Development of a P₂ element with optimal L² convergence for biharmonic equation. Numerical Methods for Partial Differential Equations, 2019, 35, 1497-1508.	3.6	12
29	A weak Galerkin finite element method for the Navierâ€“Stokes equations. Journal of Computational and Applied Mathematics, 2019, 362, 614-625.	2.0	28
30	An a posteriori error estimator for the weak Galerkin least-squares finite-element method. Journal of Computational and Applied Mathematics, 2019, 362, 383-399.	2.0	7
31	A discontinuous least-squares finite-element method for second-order elliptic equations. International Journal of Computer Mathematics, 2019, 96, 557-567.	1.8	3
32	Discrete maximum principle for the P1â^'P0 weak Galerkin finite element approximations. Journal of Computational Physics, 2018, 362, 114-130.	3.8	9
33	A weak Galerkin least-squares finite element method for divâ€“curl systems. Journal of Computational Physics, 2018, 363, 79-86.	3.8	16
34	Interior energy error estimates for the weak Galerkin finite element method. Numerische Mathematik, 2018, 139, 447-478.	1.9	10
35	A unified a posteriori error estimator for finite volume methods for the stokes equations. Mathematical Methods in the Applied Sciences, 2018, 41, 866-880.	2.3	9
36	Weak Galerkin method for the Biotâ€™s consolidation model. Computers and Mathematics With Applications, 2018, 75, 2017-2030.	2.7	27

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37	A simple finite element method for linear hyperbolic problems. Journal of Computational and Applied Mathematics, 2018, 330, 330-339.	2.0	11
38	A Weak Galerkin Method for the Reissnerâ€“Mindlin Plate in Primary Form. Journal of Scientific Computing, 2018, 75, 782-802.	2.3	6
39	A discrete divergence free weak Galerkin finite element method for the Stokes equations. Applied Numerical Mathematics, 2018, 125, 172-182.	2.1	13
40	A Weak Galerkin Finite Element Method for Singularly Perturbed Convection-Diffusion--Reaction Problems. SIAM Journal on Numerical Analysis, 2018, 56, 1482-1497.	2.3	83
41	A simple finite element method for the Stokes equations. Advances in Computational Mathematics, 2017, 43, 1305-1324.	1.6	10
42	A Least-Squares-Based Weak Galerkin Finite Element Method for Second Order Elliptic Equations. SIAM Journal of Scientific Computing, 2017, 39, A1531-A1557.	2.8	16
43	A weak Galerkin finite element scheme with boundary continuity for second-order elliptic problems. Computers and Mathematics With Applications, 2017, 74, 2243-2252.	2.7	6
44	Effective implementation of the weak Galerkin finite element methods for the biharmonic equation. Computers and Mathematics With Applications, 2017, 74, 1215-1222.	2.7	12
45	A weak Galerkin generalized multiscale finite element method. Journal of Computational and Applied Mathematics, 2016, 305, 68-81.	2.0	7
46	A new weak Galerkin finite element method for elliptic interface problems. Journal of Computational Physics, 2016, 325, 157-173.	3.8	89
47	A hybridized formulation for the weak Galerkin mixed finite element method. Journal of Computational and Applied Mathematics, 2016, 307, 335-345.	2.0	13
48	A weak Galerkin finite element method for the stokes equations. Advances in Computational Mathematics, 2016, 42, 155-174.	1.6	164
49	A Weak Galerkin Finite Element Method for the Maxwell Equations. Journal of Scientific Computing, 2015, 65, 363-386.	2.3	146
50	A weak Galerkin finite element method with polynomial reduction. Journal of Computational and Applied Mathematics, 2015, 285, 45-58.	2.0	105
51	An auxiliary space multigrid preconditioner for the weak Galerkin method. Computers and Mathematics With Applications, 2015, 70, 330-344.	2.7	23
52	A modified weak Galerkin finite element method for the Stokes equations. Journal of Computational and Applied Mathematics, 2015, 275, 79-90.	2.0	51
53	A new weak Galerkin finite element method for the Helmholtz equation. IMA Journal of Numerical Analysis, 2015, 35, 1228-1255.	2.9	73
54	A stable numerical algorithm for the Brinkman equations by weak Galerkin finite element methods. Journal of Computational Physics, 2014, 273, 327-342.	3.8	67

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55	Weak Galerkin finite element methods for the biharmonic equation on polytopal meshes. Numerical Methods for Partial Differential Equations, 2014, 30, 1003-1029.	3.6	131
56	A weak Galerkin mixed finite element method for second order elliptic problems. Mathematics of Computation, 2014, 83, 2101-2126.	2.1	368
57	Weak Galerkin finite element methods for Darcy flow: Anisotropy and heterogeneity. Journal of Computational Physics, 2014, 276, 422-437.	3.8	54
58	A $$C^0$$ C 0 -Weak Galerkin Finite Element Method for the Biharmonic Equation. Journal of Scientific Computing, 2014, 59, 473-495.	2.3	58
59	A Posteriori Error Estimates for Weak Galerkin Finite Element Methods for Second Order Elliptic Problems. Journal of Scientific Computing, 2014, 59, 496-511.	2.3	53
60	Interior penalty discontinuous Galerkin method on very general polygonal and polyhedral meshes. Journal of Computational and Applied Mathematics, 2014, 255, 432-440.	2.0	18
61	A Numerical Study on the Weak Galerkin Method for the Helmholtz Equation. Communications in Computational Physics, 2014, 15, 1461-1479.	1.7	41
62	A computational study of the weak Galerkin method for second-order elliptic equations. Numerical Algorithms, 2013, 63, 753-777.	1.9	89
63	Weak Galerkin methods for second order elliptic interface problems. Journal of Computational Physics, 2013, 250, 106-125.	3.8	118
64	Superconvergence of finite element approximations for the Stokes problem by -projection methods. Applied Mathematics and Computation, 2013, 219, 5649-5656.	2.2	3
65	A posteriori error estimates for finite volume method based on bilinear trial functions for the elliptic equation. Journal of Computational and Applied Mathematics, 2013, 254, 185-191.	2.0	7
66	A weak Galerkin finite element method for second-order elliptic problems. Journal of Computational and Applied Mathematics, 2013, 241, 103-115.	2.0	426
67	A Weak Galerkin Mixed Finite Element Method for Biharmonic Equations. Springer Proceedings in Mathematics and Statistics, 2013, , 247-277.	0.2	19
68	<mml:math altimg="si4.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.7	4
69	Convergence of the discontinuous finite volume method for elliptic problems with minimal regularity. Journal of Computational and Applied Mathematics, 2012, 236, 4537-4546.	2.0	15
70	A Posteriori Error Estimation for an Interior Penalty Type Method Employing $H(mathrm{div})$ Elements for the Stokes Equations. SIAM Journal of Scientific Computing, 2011, 33, 131-152.	2.8	8
71	Discontinuous Galerkin Finite Element Methods for Interface Problems: A Priori and A Posteriori Error Estimations. SIAM Journal on Numerical Analysis, 2011, 49, 1761-1787.	2.3	95
72	An adaptive discontinuous finite volume method for elliptic problems. Journal of Computational and Applied Mathematics, 2011, 235, 5422-5431.	2.0	21

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73	A posterior error estimate for finite volume methods of the second order elliptic problem. Numerical Methods for Partial Differential Equations, 2011, 27, 1165-1178.	3.6	11
74	A finite volume method for solving Navierâ€“Stokes problems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6686-6695.	1.1	12
75	A Comparative Study of Locally Conservative Numerical Methods for Darcy's Flows. Procedia Computer Science, 2011, 4, 974-983.	2.0	8
76	Unified Analysis of Finite Volume Methods for the Stokes Equations. SIAM Journal on Numerical Analysis, 2010, 48, 824-839.	2.3	32
77	Superconvergence of finite volume methods for the Stokes equations. Numerical Methods for Partial Differential Equations, 2009, 25, 1212-1230.	3.6	13
78	A Robust Numerical Method for Stokes Equations Based on Divergence-FreeH(div) Finite Element Methods. SIAM Journal of Scientific Computing, 2009, 31, 2784-2802.	2.8	38
79	Analysis and convergence of finite volume method using discontinuous bilinear functions. Numerical Methods for Partial Differential Equations, 2008, 24, 335-348.	3.6	7
80	New Finite Element Methods in Computational Fluid Dynamics by H(div) Elements. SIAM Journal on Numerical Analysis, 2007, 45, 1269-1286.	2.3	74
81	Unified Analysis of Finite Volume Methods for Second Order Elliptic Problems. SIAM Journal on Numerical Analysis, 2007, 45, 1639-1653.	2.3	65
82	Superconvergence of finite volume methods for the second order elliptic problem. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 3706-3712.	6.6	22
83	Stabilized discontinuous finite element approximations for Stokes equations. Journal of Computational and Applied Mathematics, 2007, 198, 236-252.	2.0	13
84	A Discontinuous Finite Volume Method for the Stokes Problems. SIAM Journal on Numerical Analysis, 2006, 44, 183-198.	2.3	58
85	A mixed nonconforming finite element for linear elasticity. Numerical Methods for Partial Differential Equations, 2005, 21, 1043-1051.	3.6	16
86	A discontinuous Galerkin method for the Reissnerâ€“Mindlin plate in the primitive variables. Applied Mathematics and Computation, 2004, 149, 65-82.	2.2	6
87	Discontinuous Stable Elements for the Incompressible Flow. Advances in Computational Mathematics, 2004, 20, 333-345.	1.6	6
88	A New Discontinuous Finite Volume Method for Elliptic Problems. SIAM Journal on Numerical Analysis, 2004, 42, 1062-1072.	2.3	58
89	Superconvergence of nonconforming finite element method for the Stokes equations. Numerical Methods for Partial Differential Equations, 2002, 18, 143-154.	3.6	35
90	Superconvergence analysis for the Navierâ€“Stokes equations. Applied Numerical Mathematics, 2002, 41, 515-527.	2.1	11

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91	Superconvergence of nonconforming finite element method for the Stokes equations. Numerical Methods for Partial Differential Equations, 2002, 18, 143-154.	3.6	2
92	Superconvergence of Finite Element Approximations for the Stokes Problem by Projection Methods. SIAM Journal on Numerical Analysis, 2001, 39, 1001-1013.	2.3	42
93	On the relationship between finite volume and finite element methods applied to the Stokes equations. Numerical Methods for Partial Differential Equations, 2001, 17, 440-453.	3.6	76
94	A least-squares finite element approximation for the compressible Stokes equations. Numerical Methods for Partial Differential Equations, 2000, 16, 62-70.	3.6	8
95	A rectangular element for the Reissner-Mindlin plate. Numerical Methods for Partial Differential Equations, 2000, 16, 184-193.	3.6	12
96	Stabilized finite element approximations for the Reissnerâ€“Mindlin plate. Advances in Computational Mathematics, 2000, 13, 375-386.	1.6	2
97	Two-level discretizations of the stream function form of the navier-stokes equations. Numerical Functional Analysis and Optimization, 1999, 20, 909-916.	1.4	17
98	A stable nonconforming quadrilateral finite element method for the stationary Stokes and Navier-Stokes equations. Calcolo, 1999, 36, 215-232.	1.1	80
99	Least-squares finite element approximations for the Reissner-Mindlin plate. Numerical Linear Algebra With Applications, 1999, 6, 479-496.	1.6	11
100	Nonconforming Galerkin methods based on quadrilateral elements for second order elliptic problems. ESAIM: Mathematical Modelling and Numerical Analysis, 1999, 33, 747-770.	1.9	151
101	Domain decomposition for a least-square finite element method for second order elliptic problem. Applied Mathematics and Computation, 1998, 91, 233-242.	2.2	7
102	A discrete divergence-free basis for finite element methods. Numerical Algorithms, 1997, 16, 365-380.	1.9	14
103	The construction of a null basis for a discrete divergence operator. Journal of Computational and Applied Mathematics, 1995, 58, 117-133.	2.0	7
104	The derivation of minimal support basis functions for the discrete divergence operator. Journal of Computational and Applied Mathematics, 1995, 61, 105-116.	2.0	4
105	The construction of an optimal weakly divergence-free macroelement. International Journal for Numerical Methods in Engineering, 1993, 36, 2245-2262.	2.8	4
106	Construction of null bases for the divergence operator associated with incompressible navier-stokes equations. Linear Algebra and Its Applications, 1992, 171, 9-52.	0.9	11